



SPYWOLF

Security Audit Report

(TESTNET)



Completed on
August 28, 2023

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OVERVIEW

This audit has been prepared for **On-Chain Dynamics** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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On-chain Dynamics



**ON-CHAIN
DYNAMICS**

NEXT-LEVEL TRADING TOOLS

PROJECT DESCRIPTION

According to their website:

On-Chain Dynamics boasts a collection of trading bots that stand out for their advanced capabilities, security, and user-centric design.

The list includes: Sniper bot, Flashswap arbitrage, Copy trading, MEV bot, Telegram & Discord bots, Algorithmic trading.

Release Date: Presale starts in August 29th, 2023

Category: DeFi



CONTRACT INFO

Token Name On-Chain Dynamics	Symbol OCD
Contract Address Not deployed yet	
Network Not deployed yet	Language Solidity
Deployment Date Not deployed yet	Contract Type Standard Token with Fees
Total Supply 1,000,000,000	Status Not deployed yet

TAXES



*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	Contract not deployed yet
Uniq Senders	Contract not deployed yet
Uniq Receivers	Contract not deployed yet
Total Amount	Contract not deployed yet
Median Transfer Amount	Contract not deployed yet
Average Transfer Amount	Contract not deployed yet
First transfer date	Contract not deployed yet
Last transfer date	Contract not deployed yet
Days token transferred	Contract not deployed yet

SMART CONTRACT STATS

Calls Count	Contract not deployed yet
External calls	Contract not deployed yet
Internal calls	Contract not deployed yet
Transactions count	Contract not deployed yet
Uniq Callers	Contract not deployed yet
Days contract called	Contract not deployed yet
Last transaction time	Contract not deployed yet
Created	Contract not deployed yet
Create TX	Contract not deployed yet
Creator	Contract not deployed yet



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

High Risk

No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.



Informational

Owner can set buy/sell fees up to 10%.

Combined buy+sell = 20%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function updateBuyFee(uint256 _marketFee) external onlyOwner {  
    require(_marketFee <= 10, "max buy fee is 10");  
    marketFeeOnBuy = _marketFee;  
    emit FeeUpdated(marketFeeOnBuy);  
}  
  
function updateSellFee(uint256 _marketFee) external onlyOwner {  
    require(_marketFee <= 10, "max sell fee is 10");  
    marketFeeOnSell = _marketFee;  
    emit FeeUpdated(marketFeeOnSell);  
}
```



Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function setIncludeOrExcludeFromFee(  
    address account,  
    bool value  
) external onlyOwner {  
    isExcludedFromFee[account] = value;  
    emit ExcludeFromFee(account, value);  
}
```

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function withdrawETH(uint256 _amount) external onlyOwner {  
    require(address(this).balance >= _amount, "Invalid Amount");  
    payable(msg.sender).transfer(_amount);  
  
    emit Transfer(address(this), msg.sender, _amount);  
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

On-Chain Dynamics

GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner cannot set a transaction limit



SPYWOLF

CRYPTO SECURITY

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Contract Development

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.